

AM/NS INDIA

Visakhapatnam
22.06.2023

To
The Jt. Director(S),
Integrated Regional Office,
Ministry of Environment, Forest & Climate Change
Vijayawada, AP.

Sub – Submission of half-yearly compliance report on the stipulated environmental clearance terms and conditions in respect of M/s ArcelorMittal Nippon Steel India Limited Visakhapatnam A.P for the period

from January'23 to June'23.

Ref – 1) MoEF File No: - IA-J-11011/131/2022-IA-II(IND-I) and EC Identification No: - EC22A008AP120408

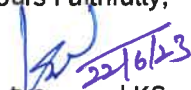
2) MoEF&CC's notification vide S.O-5845 (E), dt. 28th Nov 2018.

Respected Sir,

We are herewith submitting the six-monthly compliance report on the status of the implementation of the conditions stipulated in the environmental clearance awarded to us vide MoEF File NO. IA-J-11011/131/2022-IA-II(IND-1) in respect of M/s ArcelorMittal Nippon Steel India Limited Visakhapatnam A.P., for the period from January'23 to June'23 for your kind perusal. This is in reference to the MoEF&CC's notification vide S.O-5845, dt. 28th Nov 2018, the six-monthly compliance report is being submitted only in soft copy mode, shared with your good office at e-mail iro.vijayawada-mefcc@gov.in, suresh.pasupuleti@gov.in.

We believe the above submission is in order

Yours Faithfully,


Satyaprasad KS
Jt. General Manager (Env)



Copy to.

Submitted to Regional Officer, AP Pollution Control Board, Visakhapatnam for kind information.

ArcelorMittal Nippon Steel India Limited

Near Flyover, Scindia Road, Visakhapatnam-530004
Andhra Pradesh, India

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A Joint venture between ArcelorMittal and
Nippon Steel Corporation


ArcelorMittal


NIPPON STEEL

M/s ArcelorMittal Nippon Steel India Limited,
Near Fly Over, Scindia Road,
Visakhapatnam. A.P

Half-Yearly Compliance Report to the Environmental Clearance granted
in favour of M/s ArcelorMittal Nippon Steel India Limited Visakhapatnam
for the period from January'23 to June'23.

Name of the Company	M/s ArcelorMittal Nippon Steel India Limited, Visakhapatnam
Name of the Project	Proposed change of fuel from LSHS to Natural Gas (Fuel oil as stand by) in the Existing 7.0 MTPA Iron ore Pelletisation Plant and Net 25 MW Captive Power Plant by M/s ArcelorMittal Nippon Steel India Limited located at village Kancharapalem, Tehsil Visakhapatnam Urban, District Visakhapatnam, Andhra Pradesh, India.
EC Identification No.	EC22A008AP120408
File No.	IA-J-11011/131/2022-IA-II(IND-1)
Compliance Status for the Period	January'23 to June'23

Submitted By:


M/s ArcelorMittal Nippon Steel India Limited
Visakhapatnam. A.P

Condition wise Compliance Report		
S. No	Specific Condition	Compliance Status
1.	The Project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p>Existing Monitoring System</p> <ul style="list-style-type: none"> • 2 nos. Continuous Ambient Air Quality Monitoring Stations (CAAQMS) are in place to monitor PM10, PM2.5, SO2, NO2. • Continuous Emission Monitoring Station (CEMS) is also installed to 3 major stacks of Pellet plant-1 & pellet plant -2 and CPP and are connected to APPCB web site. • Data is being transmitted to Andhra Pradesh Pollution Control Board (APPCB) through Data Transmissions Unit (DTU) from all CAAQMS & CEMS stations. • Environmental monitoring is being carried out by 3rd party accredited agency and reports submitted to AP Pollution Control Board regularly. <p>Following Measures are being Taken to Control Fugitive Emission</p> <ul style="list-style-type: none"> • Iron ore fines which is the major raw material is conveyed through 267 km long slurry pipeline from Kirandul which reduces the fugitive emission to a great extent. • The material handling starting from initial to final is a wet process. • Major transport of other raw materials and product is being done through sea route and by closed overhead conveyor from plant to port. • High Capacity and High Efficient bag filters are installed at all the product transfer points of Junction Houses. • Fixed water sprinklers are installed at raw material yard & stockpile yard. <p>Photographs of the Pollution control Measures</p>  <p>Following Measures are being Taken for Reducing Particulate Matter Emission</p> <ul style="list-style-type: none"> • ESP, Bag filter, Scrubbers as discussed, and details given are provided to keep the dust level within the stipulated limit.

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		<ul style="list-style-type: none"> • Efficiency of APCS is being measured time to time from reputed institute and maintained upto designed level. • Environmental monitoring is being carried out by 3rd party accredited agency and reports submitted to pollution control board regularly. <p>Compliance to the annual performance monitoring of the pollution control devices</p> <ul style="list-style-type: none"> • Existing Air pollution control equipment are designed to achieve the existing emission norms and technological upgradation is also being taken care from time to time to meet stringent emission norms and the continuous emissions data is being uploaded to the Andhra Pradesh Pollution Control Board website and physical monitoring by MoEFCC recognized 3rd Party is being conducted every month and reports are being shared with Andhra Pradesh Pollution Control Board. • Regular Preventive Maintenance is also done to ensure that all the air pollution control equipment installed in the plant shall be working in healthy condition by awarding Annual Maintenance contracts to the technically qualified vendor. • We have conducted performance monitoring of ESPs of Pellet plant-1, Pellet plant-2 and Captive power plant as well as bag filters attached to indurating furnace, additive grinding of pellet plant-1, pellet plant-2 and coal crusher of Captive power plant in August 2021 by third party. <p>Hence Complied with.</p>															
2.	<p>The Project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.</p>	<ul style="list-style-type: none"> • The Change fuel Project from LSHS to Natural gas envisaged following reduction in Carbon Footprint. • Existing green belt is spread in 49.24 acres. Which <table border="1" data-bbox="743 1312 1442 1599"> <thead> <tr> <th>S.No</th> <th>Parameter</th> <th>Current Fuel Emission (TPD)</th> <th>Revised Emission (TPD)</th> <th>% Reduction in the pollution load</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>SO2</td> <td>9</td> <td>0.0057</td> <td>99</td> </tr> <tr> <td>2.</td> <td>CO2</td> <td>933</td> <td>781</td> <td>16</td> </tr> </tbody> </table> <p>is maintained by a dedicated Horticulture team.</p> <ul style="list-style-type: none"> • Additionally, Green belt is being developed in the NE and East side of the plant. <p>Hence Complied with</p>	S.No	Parameter	Current Fuel Emission (TPD)	Revised Emission (TPD)	% Reduction in the pollution load	1.	SO2	9	0.0057	99	2.	CO2	933	781	16
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1.	SO2	9	0.0057	99													
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3.	<p>Total water requirement for the existing plant as 10205 m3/day, including 3655m3/day for Captive Power Plant and water required for Pellet Plant is 6550 m3/day shall be met form GVMC (1200 m3/day) and recycled water (9120 m3/day).</p>	<p>Noted and Agreed. Hence complied with.</p>															

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4.	Project Proponent shall obtain renewal of lease from Visakhapatnam Port Trust.	Land Lease renewal application submitted to VPT which is under process. Meanwhile AMNS India had paid the land rentals upto 31 st March 2024.
5.	<p>Following additional arrangements to control fugitive dust shall be provided:</p> <p>a) Fog/Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron ore, Coal and for Fly Ash and similar solid waste storage areas.</p> <p>b) Proper Covered vehicle shall be used while transport of Materials.</p> <p>c) Wheel Washing mechanism shall be provided in entry and exit gates with complete recirculation system.</p>	<p>a. Dry Fog Water Sprinklers are installed on the Product conveying systems. Water Sprinklers and Side Wind Breaking walls are installed for Additive Storage Yards.</p> <p>b. Ensured that all the Vehicles are properly covered with tarpauline.</p> <p>c. During quarterly receipt of Additives, all the vehicles are passing through the Wheel Washing Facility with complete recirculation which is installed by VPT.</p> <p>Hence complied with.</p>
6.	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.	Layout plan, including internal roads connecting to all service areas are provided. The road are Min 6.0 mts and Max 9 mts wide and MSA as per IRC guidelines has been taken care of. Hence Complied with
7.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yard shall also have garland drains to trap the runoff material.	<p>The ground surface of raw material storage yards are laid with gravel 1 foot then compacted and a 3mm thick geo-textile. Over the geo-textile, 150 mm Water Bound Macadam (WBM)¹ is laid. In which stone aggregates and binders are overlaid one over another during construction of WBM layer.</p> <p>Further, the raw material storage yard in the plant area is enclosed with boundary wall on 2 to 3 sides and the open side is well laid with garland drain and catch pit arrangement. The slope of the raw material storage is inclined towards the garland drain. Thus the rain water washing the stored material is collected in catch-pit through garland drains and the clear water is pumped to thickner for recirculation / reuse in the plant. The trapped raw material washings from the catch-pits are periodically cleaned and put back on the respective raw material yard.</p>  <p>Hence Complied with.</p>
8.	Performance test shall be conducted on all pollution	Complied. Performance Test has been conducted for the existing Pollution Control Equipment in January 2022.

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	control systems every year and report shall be submitted to Regional Office of the MOEF&CC	Hence Complied with.																																
9.	Particulate matter emission from stacks shall be less than 30 mg/Nm ³ . Action plan submitted to limit the dust emission shall be strictly implemented.	<p>Pellet plant-1 was commissioned in 1997 with multiclones as air pollution control equipment to achieve stack emissions of 150 mg/Nm³. During further expansion of PP-2 in 2005, additional multiclones with high capacity were installed to achieve stack emissions of 100 mg/Nm³. In 2007-08, because of the stringent emission norm was given by APPCB, after due diligence and exploring all possibilities with established technical service providers in Air pollution control management & finally Electrostatic Precipitators (ESP) were designed, installed and operated which is first of its kind in Pellet Plants in India. In the available space, 2 ESPs were retrofitted in PP – 1 in the year 2007. Subsequently, another 2 ESPs were retrofitted in PP – 2 in 2008-09 and successfully achieved stack emission norm of 50 mg/Nm³ in both plants.</p> <p>As this is a 25-year-old plant, it's highly challenging to further reduce the emissions to 30 mg/Nm³ as we have achieved 50 mg/Nm³ itself by retrofitting the ESPs in the existing space. We will initiate a technical feasibility study with the OEM (Original Equipment Manufacturer) in the existing setup and explore the possibilities for further reduction of emissions.</p> <p>Action Plan to achieve 30 mg/Nm³</p> <table border="1"> <thead> <tr> <th colspan="4">Action Plan for PP-2</th> </tr> <tr> <th>S. No.</th> <th>Action plan</th> <th>Target date</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">PHASE-I</td> </tr> <tr> <td>1</td> <td>PP-II Hood exhaust & Wind box Exhaust ESP Audit in Sep-2022 annual shutdown.</td> <td>Sep'2022</td> <td>Completed</td> </tr> <tr> <td>2</td> <td>Plant Visit of HFPS/MFPS technology providers during Annual Shut down & feasibility study</td> <td>Sep'2022</td> <td>Completed</td> </tr> <tr> <td>3</td> <td>Technical Review of the Proposal</td> <td>Nov- 2022</td> <td>Completed</td> </tr> <tr> <td>4</td> <td>Approval for installation and procurement</td> <td>July-2023</td> <td>Capex Approval was submitted to the management</td> </tr> <tr> <td>5</td> <td>Installation and commissioning of HFPS/MFPS for</td> <td>Oct-2023</td> <td>--</td> </tr> </tbody> </table>	Action Plan for PP-2				S. No.	Action plan	Target date	Status	PHASE-I				1	PP-II Hood exhaust & Wind box Exhaust ESP Audit in Sep-2022 annual shutdown.	Sep'2022	Completed	2	Plant Visit of HFPS/MFPS technology providers during Annual Shut down & feasibility study	Sep'2022	Completed	3	Technical Review of the Proposal	Nov- 2022	Completed	4	Approval for installation and procurement	July-2023	Capex Approval was submitted to the management	5	Installation and commissioning of HFPS/MFPS for	Oct-2023	--
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			Hood Exhaust ESP & Wind box exhaust ESP		
		6	Analysis for equating flow in wind box exhaust ESP	Aug-2022	Completed
		7	Implementation in wind box exhaust inlet and outlet duct	Sep-2022	Completed
		8	Performance measurement after completion of all the above activities	Aug-2023	--
Action Plan for PP-1					
Phase-I					
		1	PP-I Hood exhaust & Wind box Exhaust ESP Audit findings, available with Maintenance	Readily available	Completed
		2	Action plan on Audit points	PP-I annual Shutdown	Annual Shutdown is planned in the month of Aug/ Sep 2023.
		3	Approval for installation and procurement of HFPS/MFPS based on PP-II performance	Dec-2023	
		4 5	Installation and commissioning of HFPS/MFPS for Hood Exhaust ESP- & wind box exhaust ESP	March-2024	
		6	Performance measurement after completion of all the above activities	March-2024	
Phase-II					
Action Plan for CPP					
		1	Performance study for the existing	December'22	Completed

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10.	<p>Solid waste utilization</p> <p>(a) PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement</p> <p>(b) PP shall recycle/reuse 100% solid waste generated in the plant as per submitted plan.</p> <p>(c) Used refractories shall be recycled as far as possible</p>	<p>a. Not Applicable</p> <p>b. All the Solid waste is currently being disposed to the authorized vendors. Solid Waste generation Table</p> <p>c. Used refractories generated only during annual</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Description</th> <th>Quantity</th> <th>Disposed to</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Flyash</td> <td>4950 MTPA</td> <td>Brick Manufacturers</td> </tr> <tr> <td>2</td> <td>Used Oil</td> <td>24 KL/ Year</td> <td>APPCB Authorized Vendors</td> </tr> <tr> <td>3</td> <td>Canteen Waste</td> <td>146 TPA</td> <td>Composted</td> </tr> <tr> <td>4</td> <td>E-Waste</td> <td>10 MTPA</td> <td>Authorized Vendors</td> </tr> <tr> <td>5</td> <td>MS Scrap</td> <td>850 MTPA</td> <td>Authorized Vendors</td> </tr> <tr> <td>6</td> <td>Used Conveyor Belt</td> <td>110 MTPA</td> <td>Authorized Vendors</td> </tr> <tr> <td>7</td> <td>Used Filter Bags</td> <td>120 MTPA</td> <td>Authorized Vendors</td> </tr> <tr> <td>8</td> <td>Rubber Scrap</td> <td>55 MTPA</td> <td>Authorized Vendors</td> </tr> <tr> <td>9</td> <td>Wood Scrap</td> <td>40 MTPA</td> <td>Authorized Vendors</td> </tr> </tbody> </table> <p>shutdown. The used refractories are disposed through authorized Recyclers. Hence Complied With.</p>	S.No	Description	Quantity	Disposed to	1	Flyash	4950 MTPA	Brick Manufacturers	2	Used Oil	24 KL/ Year	APPCB Authorized Vendors	3	Canteen Waste	146 TPA	Composted	4	E-Waste	10 MTPA	Authorized Vendors	5	MS Scrap	850 MTPA	Authorized Vendors	6	Used Conveyor Belt	110 MTPA	Authorized Vendors	7	Used Filter Bags	120 MTPA	Authorized Vendors	8	Rubber Scrap	55 MTPA	Authorized Vendors	9	Wood Scrap	40 MTPA	Authorized Vendors
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11.	<p>Bay of Bengal (3.3 Km, E) Narava Gedda (5.3) and Mehadri Gedda (9.2 Km, NW) exists within 10 Km. radius of the plant site. A robust and full proof Drainage Conservation Scheme to protect the natural drainage and it flow parameters; along with Soil Conservation scheme and multiple Erosion control measures shall be implemented</p>	<p>The project site is not in vicinity of any river and neither within the flood affected zone of any river. Further, no canal / nala / seasonal drain and any other water body is passing through the project site. A detailed Study Conducted by Dr. V Venkateshwara Rao, Professor Retd. (Geo Engineering), Andhra University opined that with respect to ground water recharge there is no feasibility due to</p> <ol style="list-style-type: none"> 1. Marine clay which is an impermeable layer present from 1m to 3m and 13 m to 14 m from the present ground level in the entire site of investigation. Marine clay formation is not an Aquifer. 2. Water table is at 0.8m to 1.18m depth and is not advisable to do recharge of groundwater to avoid water logging problem. 3. Groundwater quality in this marine environment is highly saline and of no use even if we add a little amount of fresh water. <p>Hence Complied with.</p>																																								
12	<p>The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be</p>	<p>There is no wastewater generation and disposal from the process. Hence no ETP is required. However, around 8 no's sumps were provided in the plant to collect the stormwater</p>																																								

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	installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.	and reuse back into the process. Work Order for the installation of STP has been issued and the Installation is under progress. STP will be commissioned in 2 months.														
13	The company shall also undertake rainwater harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.	Due to the Geotechnical Conditions of the soil and existing groundwater table which is at 0.8 m from surface, Rainwater harvesting in the plant is not feasible. Most of the rainfall being percolated in the green belt area, except when rain fall intensity crosses 30mm/day. Mostly roof water concretized surface run off (3650 m2) is considered for rainwater harvesting which is accounted to approx. 3650 m3 max, which is collected in a concrete drain connected to sumps and the same will be used back in the process. A report of detailed Study Conducted by Dr. V Venkateshwara Rao, Professor Retd. (Geo Engineering), Andhra University. Hence Complied with.														
14	GnanaPuram (0.9 Km, E), Kancharpalem (0.9 Km, NE) Velampeta (2 Km, SE), Akkayapalem (2.8 Km, NE) and Gandhigram (3.3 Km, SE) exists within the study area of project site Project Proponent shall take appropriate environmental safeguard measures to minimize the impact of the habitation of the locals. The company shall also include this location in its environmental monitoring program.	We have successfully completed the plantation program of planting 1 Lakh trees in various places the city of Visakhapatnam. Gnanapuram, Kancharapalem, Valempeta, Akkayapalem and Gandhigram are also covered under the plantation program. Further these areas are also covered in the monthly Environment Monitoring program which is being carried out by an MoEFCC accredited 3 rd party agency M/s Team Labs. Hence being Complied with.														
15	As committed, project proponent shall undertake CER through innovative schemes in consultation with District Administration.	<table border="1"> <thead> <tr> <th colspan="2">CSR & CER Expenditure from January 2023 to June 2023</th> </tr> <tr> <th>Thematic area</th> <th>Expenditure (INR)</th> </tr> </thead> <tbody> <tr> <td>Sports & Culture</td> <td>7,20,000/-</td> </tr> <tr> <td>Environment</td> <td>1,45,000/-</td> </tr> <tr> <td>Infrastructure Development</td> <td>10,000/-</td> </tr> <tr> <td>Others</td> <td>4,20,489/-</td> </tr> <tr> <td>TOTAL</td> <td>12,95,489/-</td> </tr> </tbody> </table> <p>Hence Complied with.</p>	CSR & CER Expenditure from January 2023 to June 2023		Thematic area	Expenditure (INR)	Sports & Culture	7,20,000/-	Environment	1,45,000/-	Infrastructure Development	10,000/-	Others	4,20,489/-	TOTAL	12,95,489/-
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16	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	E-waste is being disposed through CPCB/ APPCB authorized recyclers. Hence Complied with.														
17	Three-tier Green Belt shall be developed in at least 33% of the	We have developed a thick Green belt covering all the 4 sides of the layout along with the periphery of the plant														


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	project area in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. The survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to the concerned Regional Office of the MoEF&CC.	boundary and inside the plant covering 32% of the area under the greenbelt in 49.24 Acres with native species and avenue plantation like Millingtonia, peltophorum, Pongamia, Neem, Spathodea, Tabebuia rosea, Tabubia avalanda, Badam, Mimusops elengi, Bogada, Lagerstroemia, Mahogany, Cadamba, Filicium decipiens, Ficus benghalensis banyan tree, Ficus religiosa, Cassia siamea, Ponna, Cinnamomumtamala, Buteamonosperma, Terminalia Arjuna, Conacarpus, Indian Rubber, Ashoka, Caesalpinia, Bauhinia Blakeana, Citrus Hybrid Lemon, Emblica Officinalis, Amla, Coconut, Banana, Mosambi, Sapota, Syzygium Cumini, Jamun, Bamboo, Aegle Marmelos. Achieved 33% of the the plantation by planting remaining 1% green belt at Northeast corner and Stockpile areas. Hence Complied with.
18	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	In plant area, The land is covered with Shade Grass and Bitumen Top Layer to arrest soil Erosion and dust Pollution.
19	Air Cooled condensers shall be used in the captive power plant.	We are using recycled water in the existing surface condensers. No Fresh/ Groundwater is used.
20	During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.	We have identified hot areas in the plant. Noise Monitoring within the process areas is being done. Heat stress survey will be conducted once the plant is operational.
21	The Plastic waste Management Rules 2016, inter-alia, mandated banning of identifies Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of	All the Single Use Plastics are banned within the plant premises. Promoting usage of Paper cups and cloth bags inside the plant premises. Awareness Training Programs have been given to all the Employees and Associates. Hence Complied with.

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	Notification published by this Ministry of 12/082021.A report, along with Photographs, on the measures taken shall also be included in the sex monthly compliance report being submitted by the Project Proponents.	
22	The Project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of clean fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	Installed Wet Scrubbers, ESPs, Bag Filters within the Plant premises. Further to contain the dust a thick green cover is being maintained on all 4 sides of the boundary and water sprinkling is being done on the roads on daily basis by water tankers to Control the air borne dust from the internal roads. Hence Complied with.
23	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MOEF&CC.	We have submitted the Wildlife Conservation Plan (WLCP) to the DFO Vizag. Inspection by the Forest range Officer, Vizag has been completed. Awaiting Recommendations of DFO for further implementation.
B.	General Conditions	
I.	Statutory Compliance	
1.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification,2006 and its amendments issued from time to time. It does not tantamount/conditions to the followed under any other Acts/Rules/Subordinate Legislations., as may be applicable to the project.	Noted and will be complied.
II.	Air Quality Monitoring and Preservation	
1	The project proponent shall install a 24x7continuous emission monitoring system at	2 No's CAAQM Stations installed at upwind and Downwind directions and 3 No's CEMS installed in Main Process Stacks of PP – 1, PP – 2 and CPP and the data is being

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	process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.	uploaded into APPCB and CPCB websites. Calibration of 2 CAAQM and 3 CEMS by Equipment supplier has been done in the month of May 2023. Hence Complied with.
2	The Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.	Fugitive Emissions are being monitored by an MoEFCC Accredited 3 rd party Agency M/s Team lab. Hence Complied with.
3	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Appropriate Air Pollution Control Equipment (APC) like Bag Filters, ESPs, Wet Scrubbers are already installed and all the monitored values are well within the emission norms prescribed by APPCB/ MoEFCC. Hence Complied with.
4	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	We have installed Reverse Jet Air Bag Filters. Bags are cleaned by injecting clean air into the dust collector, which is a continuous operation. Leak detection process is being done Physically on daily basis by checking healthiness of Diaphragm purging, Differential Pressure of the Bag filter for all the installed Bag Filters. Hence Complied with.
5	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	All the Dust collected from Bag Filters, ESPs, Wet Scrubbers is being recycled by adding water and taken to thickeners and used a Raw Material. Hence Complied with.
6	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	All the Raw Materials, once in a quarter (For 5 – 6 days of transportation). Ensuring Tarpaulin covering and wetting of roads during Transportation. The Product is transported to stockpile using Closed Conveyors. 
		Hence Complied With.

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7	The project proponent shall provide primary and secondary fume extraction system for all melting furnaces.	Not Applicable
8	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, oil Cellars.	Not Applicable
III.	Water Quality Monitoring and Preservation	
1	The Project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. 414 € dated 30 th May 2008; G.S.R. 277 € dated 31 st March 2012 (applicable to IF/EAF);S.O.3305 € dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environmental(Protection) Act,1986 or NABL accredited laboratories.	There is no effluent generation from the Pelletization process and disposal. However, effluent generated from Captive power plant like DM water regeneration, Cooling tower blowdown, Boiler Blowdown are being collected into a sump and reused back for dust suppression systems in the plant. Water collected from Storm water drains into sumps and recycled back into thickner for reuse in the process. Domestic wastewater generated in the plant is being treated using soakpit system. Further a 20 KLD STP is proposed and will be installed and commissioned by August 2023. Hence 24x7 continuous effluent monitoring system is not applicable.
2	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act,1986 and NABL accredited laboratories.	Groundwater is being monitored twice in a year. Hence complied with.
3	The Project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in GSR 277 (E) 31 st March 2012 (applicable to IF/EAF) as amended from time to time.	This is a Pelletization Plant and No Rolling mills are used. Hence Not Applicable
4	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Garland drains and Collection pits are provided, and the runoff water is being collected into sump located at stockpile and the same is used for the dust suppression systems. Hence Complied with.
5	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	During quarterly receipt of Additives, all the vehicles are passing through the Wheel Washing Facility with complete recirculation which is installed by VPT. Hence Complied with.

														
IV.	NOISE MONITORING AND PREVENTION													
1	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noise Monitoring is being carried out on monthly basis. Hence Complied with.												
V.	ENERGY CONSERVATION MEASURES													
1	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption	The project of LED lights installation in the plant has been initiated in 2014. Since then the project has been executed in several phases and successfully completed with 100% LED lighting. It is Proposed to install Roof Top Solar Panels of capacity 294 KWH in the plant. Hence complied with.												
VI.	WASTE MANAGEMENT													
1	Used refractories shall be recycled.	Used refractories generated only during annual shutdown. The used refractories are disposed through authorized Recyclers. Hence Complied with.												
2	Kitchen waste shall be composted or converted to biogas from further use.	Kitchen waste is being composted by Horticulture department and the generated manure is being used for Greenbelt as manure. Hence complied with.												
VII.	GREEN BELT													
1	The project proponent shall prepare GHG emissions inventory for the Plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	We have conducted GHG Emission inventory study <table border="1" data-bbox="743 1440 1339 1722"> <thead> <tr> <th colspan="3" style="text-align: center;">Typical Average for GHG Emissions for Scope – 1 , 2 & 3</th> </tr> <tr> <th style="text-align: center;">Typical Scope – 1 Emissions (t CO₂e)</th> <th style="text-align: center;">Typical Scope – 2 Emissions (t CO₂e)</th> <th style="text-align: center;">Typical Scope – 3 Emissions (t CO₂e)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">622255</td> <td style="text-align: center;">143649</td> <td style="text-align: center;">271</td> </tr> <tr> <td colspan="3" style="text-align: center;">Typical GHG Intensity per Ton of Pellet Produced: - 0.108 t CO₂e</td> </tr> </tbody> </table> Hence Complied with.	Typical Average for GHG Emissions for Scope – 1 , 2 & 3			Typical Scope – 1 Emissions (t CO₂e)	Typical Scope – 2 Emissions (t CO₂e)	Typical Scope – 3 Emissions (t CO₂e)	622255	143649	271	Typical GHG Intensity per Ton of Pellet Produced: - 0.108 t CO₂e		
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622255	143649	271												
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2	Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies.	<ul style="list-style-type: none"> • AMNS India has undertaken Greenhouse Gas (GHG) accounting study. • By proposed change fuel from Fuel Oil to Natural gas additional 16% reduction of CO₂ is envisaged. • Proposed insulation of Solar Photovoltaic Cells in the plant. • 100% Replacement of Energy Efficient LED Lights. 												

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	Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/assessments should be measurable and monitor able with defined time frames.	<ul style="list-style-type: none"> Additional Mill Scale is being recycled and reused to the extent possible by reducing the Anthracite coal consumption. Existing Miyawaki Plantation produces 30 times more Oxygen and improves ground water level along with absorbing 30 times more CO₂. In future also AMNS India will try to establish Miyawaki type plantation in the plant and surrounding areas. Gap Plantation will be done every year in the existing greenbelt within project site. <p>Hence Being Complied with.</p>														
VIII.	PUBLIC HEARING AND HUMAN HEALTH ISSUES															
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	EPRP and HIRA is in place and necessary awareness and Training is being given to all the employees and Associates. Mock drills are also being conducted on quarterly basis. Hence Complied with.														
2	The Project proponent shall carry out heat stress analysis for the workmen who work in high temperature work Zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	FR jackets were issued as PPE to all the Employees and Associates who are working in Identified Hot Zones (Induration Furnace & Boiler). Non-FR Jackets are issued to all the employees working in normal areas for protection from Rotating parts. Hence Complied with.														
3	Occupational health surveillance of the worker shall be done on a regular basis and records maintained.	Health Surveillance is being done on regular basis and the records are being maintained at OHC by qualified Doctor. Hence Complied with.														
IX.	ENVIRONMENT MANAGEMENT															
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 30/09/2020.As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and under take community developmental activities in consultation with the village Panchayat and the District Administration as Committed.	<table border="1"> <thead> <tr> <th colspan="2">CSR & CER Expenditure from January 2023 to June 2023</th> </tr> <tr> <th>Thematic area</th> <th>Expenditure (INR)</th> </tr> </thead> <tbody> <tr> <td>Sports & Culture</td> <td>7,20,000/-</td> </tr> <tr> <td>Environment</td> <td>1,45,000/-</td> </tr> <tr> <td>Infrastructure Development</td> <td>10,000/-</td> </tr> <tr> <td>Others</td> <td>4,20,489/-</td> </tr> <tr> <td>TOTAL</td> <td>12,95,489/-</td> </tr> </tbody> </table> <p>Hence Complied with.</p>	CSR & CER Expenditure from January 2023 to June 2023		Thematic area	Expenditure (INR)	Sports & Culture	7,20,000/-	Environment	1,45,000/-	Infrastructure Development	10,000/-	Others	4,20,489/-	TOTAL	12,95,489/-
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2.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the	Company has a well laid down Environment Policy. Hence Complied with.														

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	environmental/forest/Wildlife norms / Conditions. The company shall have defined system of reporting infringements / deviations/Violation of the environmental / forest/wildlife norms/conditions and /or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MOEF&CC as a part of six-monthly report.	
3.	A separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	A dedicated Environment management Cell with a Senior Level officer with supporting Qualified personnel are in place and directly reporting to Executive director of the plant.
X.	MISCELLANEOUS	
1	The Project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Public Notice has been issued in the leading English & Telugu newspapers Deccan Chronicle & vartha Respectively on 7 th December 2022. Hence Complied with.
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the for 30 days from the date of receipt.	Environment clearance document has been submitted to GVMC, APPCB. Hence Complied with.
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Half yearly Compliance report has been submitted through MoEFCC portal. Hence Complied with.
4	The Project proponent shall monitor the criteria pollutants level namely; PM10, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for	Online CEMS & CAAQMS are installed in the plant premises and the data is continuously uploaded onto APPCB & CPCB portals. Hence Complied with.

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	disclosure to the public and put on the website of the company	
5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Half-yearly Compliance report has been submitted through MoEFCC portal. Hence Complied with.
6	The Project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules,1986, as amended subsequently and put on the website of the company.	The Environment Statement for the year 2022 – 2023 has been submitted to APPCB on 22 nd June 2023. Hence Complied with.
7	The Project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	The project is under execution stage, around 75% is completed. The project is expected to be completed by the end of Q1 2024 subjected to the gas supplies from GAIL.
8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	All the Recommendations and Commitments made in the EIA/ EMP report are complied with.
9	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc.in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to Public/Public domain.	The project is considered under 7(II) under EIA Notification 2006, Hence PH is exempted. Budgetary commitments given in EIA/ EMP report have been complied with.
10	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of	Noted & Agreed.

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	Environment, Forests and Climate Change (MoEF&CC).	
11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986	Noted & Agreed.
12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & Agreed.
13	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions	Noted & Agreed.
14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted & will be complied.
9	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted & Agreed.
10	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act,1986.	Noted & Agreed.
11	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, with in a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Noted & Agreed.
12	The above conditions shall be enforced, inter-alia under the	Noted and will be complied.

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	<p>provisions of the water (Prevention & Control of Pollution) Act,1974, the Air (Prevention & Control of Pollution) Act,1981, the Environment (Protection) Act,1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act,1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High courts and any other court of Law relating to the subject matter.</p>	
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